# Recombinant human Hemoglobin zeta/HBZ protein

Catalog Number: ATGP0528

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-142aa

**UniProt No.**
P02008

**NCBI Accession No.**
NP_005323

**Alternative Names**
Zeta globin, Hemoglobin zeta chain, Hemoglobin zeta, Hemoglobin subunit zeta, HBZ-T1, HBZ2, HBZ1, HBZ 2, HBAZ

## PRODUCT SPECIFICATION

**Molecular Weight**
16.7 kDa (150aa) confirmed by MALDI-TOF

**Concentration**
0.5mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 100mM NaCl, 20% glycerol

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
Hemoglobin subunit zeta (HBZ) is belongs to the globin family. Zeta-globin is alpha-like hemoglobin. The HBZ polypeptide is synthesized in the yolk sac of the early embryo, while alpha-globin is produced throughout fetal and adult life. The HBZ gene includes five functional genes and two pseudogenes. The order of genes is: 5' - zeta - pseudozeta - mu - pseudoalpha-1 - alpha-2 -alpha-1 - theta1 - 3'. Recombinant human HBZ fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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**Amino acid Sequence**

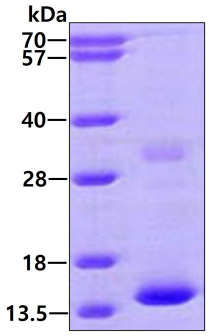
MSLTKTERTI IVSMWAKIST QADTIGTETL ERLFLSHPQT KTYFPHFDLH PGSAQLRAHG SKVVAAVGDA VKSIDDIGGA LSKLSELHAY ILRVDPVNFK LLSHCLLVTL AARFPADFTA EAHAAWDKFL SVVSSVLTEK YR<LEHHHHHH>

**General References**

Lau ET., et al. (2001) Prenat. Diagn. 21(7): 529-39.
Kidd RD., et al. (2001) Biochemistry. 40(51):15669-75.

## DATA

### SDS-PAGE




3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.